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## **SeaWiFS Postlaunch Technical Report Series**

*Stanford B. Hooker and Elaine R. Firestone, Editors*

### **Volume 6, SeaWiFS Postlaunch Technical Report Series Cumulative Index: Volumes 1–5**

*Elaine R. Firestone and Stanford B. Hooker*

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## SeaWiFS Postlaunch Technical Report Series

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## Volume 6, SeaWiFS Postlaunch Technical Report Series Cumulative Index: Volumes 1–5

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## ABSTRACT

The Sea-viewing Wide Field-of-view Sensor (SeaWiFS) is the follow-on ocean color instrument to the Coastal Zone Color Scanner (CZCS), which ceased operations in 1986, after an eight-year mission. SeaWiFS was launched on 1 August 1997, on the OrbView-2 satellite, built by Orbital Sciences Corporation (OSC). The SeaWiFS Project at the National Aeronautics and Space Administration (NASA) Goddard Space Flight Center (GSFC), undertook the responsibility of documenting all aspects of this mission, which is critical to the ocean color and marine science communities. The start of this documentation was titled the *SeaWiFS Technical Report Series*, which ended after 43 volumes were published. A follow-on series was started, titled the *SeaWiFS Postlaunch Technical Report Series*. This particular volume serves as a reference, or guidebook, to the previous five volumes and consists of four sections including: an errata, an index to key words and phrases, a list of acronyms used, and a list of all references cited. The editors will publish a cumulative index of this type after every five volumes.

## 1. INTRODUCTION

This is the first in a series of indexes, published as a separate volume in the *SeaWiFS Postlaunch Technical Report Series*, and includes information found in the first five volumes of the series. The *SeaWiFS Postlaunch Technical Report Series* has been written under the National Aeronautics and Space Administration's (NASA) Technical Memorandum (TM) numbers 1998-206892, 1999-206892, and 2000-206892, with the year part of the TM number changing with each calendar year of its existence. The volume numbers, authors, and titles of the volumes covered in this index are:

- Vol. 1: Johnson, B.C., J.B. Fowler, and C.L. Cromer, *The SeaWiFS Transfer Radiometer (SXR)*.
- Vol. 2: Aiken, J., D.G. Cummings, S.W. Gibb, N.W. Rees, R. Woodd-Walker, E.M.S. Woodward, J. Woolfenden, S.B. Hooker, J-F. Berthon, C.D. Dempsey, D.J. Suggett, P. Wood, C. Donlon, N. González-Benítez, I. Huskin, M. Quevedo, R. Barciela-Fernandez, C. de Vargas, and C. McKee, *AMT-5 Cruise Report*.
- Vol. 3: Hooker, S.B., G. Zibordi, G. Lazin, and S. McLean, *The SeaBOARR-98 Field Campaign*.
- Vol. 4: Johnson, B.C., E.A. Early, R.E. Eplee, Jr., R.A. Barnes, and R.T. Caffrey, *The 1997 Pre-launch Radiometric Calibration of SeaWiFS*.
- Vol. 5: Barnes, R.A., R.E. Eplee, Jr., S.F. Biggar, K.J. Thome, E.F. Zalewski, P.N. Slater, and A.W. Holmes, *The SeaWiFS Solar Radiation-Based Calibration and the Transfer-to-Orbit Experiment*.

This volume serves as a reference, or guidebook, to the preceding volumes of the so-called *Postlaunch Series*. It consists of three main sections: a cumulative index to key words and phrases, a glossary of acronyms, and a bibliography of all references cited in the series. In addition, an

errata section has been added to address issues and needed corrections which have come to the editors' attention since the volumes were first published.

The nomenclature of the index is a familiar one, in the sense that it is a sequence of alphabetical entries, but it uses a unique format because multiple volumes are involved. Unless indicated otherwise, the index entries refer to some aspect of the SeaWiFS instrument or project. An index entry is composed of a keyword or phrase followed by an entry field that directs the reader to the possible locations where a discussion of the keyword can be found. The entry field is normally made up of a volume identifier shown in bold face, followed by a page identifier, which is always enclosed in parentheses:

keyword, **volume**(pages).

If an entry is the subject of an entire volume, the volume field is shown in slanted type without a page field:

keyword, **Vol. #**.

An entry can also be the subject of a complete chapter. In this instance, both the volume number and chapter number appear without a page field:

keyword, **volume(ch. #)**.

Figures or tables that provide particularly important summary information are also indicated as separate entries in the page field (even if they fall within an already specified page range). In this case, the figure or table number is given with the page number on which it appears.

keyword, **volume(Fig. # p. #)**.

or

keyword, **volume(Table # p. #)**.

## 2. ERRATA

In Table 11 of Vol. 1, the value for  $p_1$  for Channel 6 should read  $1.12093 \times 10^{-3}$ , not  $1.12093 \times 10^{-4}$ .

The authorship in the citation of Volume 4, listed on the last page of that volume should be "Johnson, B.C., E.A. Early, R.E. Eplee, Jr., R.A. Barnes, and R.T. Cafrey".

Note: Since the issuance of previous volumes, a number of the references cited have changed their publication status, e.g., they have gone from "submitted," "accepted," or "in press" to printed matter. In other instances, some part (or parts) of the citation, e.g., the title or year of publication, has changed or was printed incorrectly. Listed below are the references in question as they were cited in one or more of the first five volumes in the series, along with how they now appear in the references section of this volume.

#### *Original Citation*

Barnes, R.A., R.E. Eplee, Jr., F.S. Patt, and C.R. McClain, 1999: Changes in the radiometric sensitivity of SeaWiFS. *Appl. Opt.*, (in press).

#### *Revised Citation*

Barnes, R.A., R.E. Eplee, Jr., F.S. Patt, and C.R. McClain, 1999: Changes in the radiometric sensitivity of SeaWiFS determined from lunar and solar-based measurements. *Appl. Opt.*, **38**, 4,649–4,664.

#### *Original Citation*

Biggar, S.F., P.N. Slater, J.M. Palmer, and K.J. Thome, 1999: Unified approach to absolute radiometric calibration in the solar-reflective range. *Remote Sens. Environ.*, (accepted).

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Biggar, S.F., P.N. Slater, J.M. Palmer, and K.J. Thome, 2000: Unified approach to absolute radiometric calibration in the solar-reflective range. *Remote Sens. Environ.*, (accepted).

#### *Original Citation*

Gibb, S.W., R.F.C. Mantoura, P.S. Liss, and R.G. Barlow, 1998: Distribution and biogeochemistry of methylamines and ammonia in the Arabian Sea. *Deep-Sea Res.*, (in press).

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Gibb, S.W., R.F.C. Mantoura, P.S. Liss, and R.G. Barlow, 1999: Distribution and biogeochemistry of methylamines and ammonia in the Arabian Sea. *Deep-Sea Res.*, **46**, 593–615.

#### *Original Citations*

Hooker, S.B., and C.R. McClain, 1998: A comprehensive plan for the calibration and validation of SeaWiFS data. *Prog. Oceanogr.*, (submitted).

and

Hooker, S.B., and C.R. McClain, 1999: A comprehensive plan for the calibration and validation of SeaWiFS data. *Prog. Oceanogr.*, (submitted).

#### *Revised Citation*

Hooker, S.B., and C.R. McClain, 2000: The calibration and validation of SeaWiFS data. *Prog. Oceanogr.*, **45**, 427–465.

#### *Original Citation*

Zibordi, G., J.P. Doyle, and S.B. Hooker, 1999: Offshore tower shading effects on in-water optical measurements. *J. Atmos. Oceanic Tech.*, (accepted).

#### *Revised Citation*

Zibordi, G., J.P. Doyle, and S.B. Hooker, 1999: Offshore tower shading effects on in-water optical measurements. *J. Atmos. Oceanic Tech.*, **16**, 1,767–1,779.

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## GLOSSARY

6S	Not an acronym, but an atmospheric photochemical and radiative transfer model.	DATA	Not an acronym, but a designator for the Satlantic, Inc., series of power and telemetry units.
- A -			
A/D	Analog-to-Digital	DC	Direct Current
AAOT	Acqua Alta Oceanographic Tower	DCM	Deep Chlorophyll Maximum
AC	Alternating Current	DCP	Data Collection Platform
ADCP	Acoustic Doppler Current Profiler	DIO	Digital Input-Output
AERONET	Aerosol Robotic Network	DIR	Not an acronym, but a designator for the Satlantic, Inc., series of directional units.
AMT	Atlantic Meridional Transect	DMA	Dimethylamine
AMT-5	The Fifth AMT (cruise)	DMM	Digital Multimeter
AOT	Aerosol Optical Thickness	DMS	Dimethylsulfide
ASCII	American Standard Code for Information Interchange	DMSP	Dimethylsulphoniopropionate
ASTER	Advanced Spaceborne Thermal Emission and Reflection Radiometer	DMSPd	Dissolved DMSP
ASTM	American Society for Testing and Materials	DMSPp	DMSP within phytoplankton cells
ATA	Ambient Temperature Plate Assembly	DNA	Deoxyribonucleic Acid
ATSR	Along-Track Scanning Radiometer	DOC	Dissolved Organic Carbon
AU	Astronomical Unit	DPA	Detector Plate Assembly
AVHRR	Advanced Very High Resolution Radiometer	DUT	Device Under Test
- B -			
BAS	British Antarctic Survey	DVM	Digital Voltmeter
BCD	Binary Coded Decimal		
BNC	Bayonet Nut Connector		
BPA	Back Plate Assembly		
BRDF	Bidirectional Reflectance Distribution Function		
BSST	Bulk Sea Surface Temperature		
- C -			
C-FALLS	Software package for logging SeaFALLS data.	E	East
C-mount	Not an acronym, but a mounting system for camera lenses.	EDTA	Ethylenediaminetetraacetic Acid
C-OPS	Combined Operations	EEZ	Exclusive Economic Zone
CANIGO	Canary Islands, Azores, Gibraltar Observations	e-mail	Electronic Mail
CC	Cloud Cover	EOS	Earth Observing System
CCAR	Colorado Center for Astrodynamics Research	EP	Entrance Pupil
CCD	Charge-Coupled Device	ERS-2	The Second Earth Resources Satellite
CCMS	Centre for Coastal and Marine Studies	EU	European Union
CCN	Cloud Condensation Nuclei	EUC	Equatorial Under Current
CCPO	Center for Coastal Physical Oceanography		
CDOM	Colored Dissolved Organic Matter		
CEC	Commission of the European Communities		
CERT	Calibration Evaluation and Radiometric Testing		
CHN	Carbon-Hydrogen-Nitrogen		
CNR	<i>Consiglio Nazionale delle Ricerche</i> (National Research Council)		
CoASTS	Coastal Atmosphere and Sea Time Series		
COTS	Commercial Off-The-Shelf		
CT	Cylindrical Tube or Conductivity and Temperature, depending on usage.		
CTD	Conductivity, Temperature, and Depth		
- D -			
DalBOSS	Dalhousie Buoyant Optical Surface Sensor		
DalSAS	Dalhousie SeaWiFS Aircraft Simulator		
DARR-94	Data Analysis Round-Robin		
DAS	Data Acquisition Sequence		
- E -			
		E	East
		EDTA	Ethylenediaminetetraacetic Acid
		EEZ	Exclusive Economic Zone
		e-mail	Electronic Mail
		EOS	Earth Observing System
		EP	Entrance Pupil
		ERS-2	The Second Earth Resources Satellite
		EU	European Union
		EUC	Equatorial Under Current
- F -			
		F	Fast
		FASCAL	Facility for Automated Spectroradiometric Calibrations (NIST)
		FEL	Not an acronym, but a lamp designator.
		FET	Field-Effect Transistor
		FIGD-IC	Flow Injection Gas-Diffusion Coupled to Ion Chromatography
		F-mount	Not an acronym, but a mounting system for camera lenses.
		FRRF	Fast Repetition Rate Fluorometer
		FS	Field Stop
- G -			
		G	Glass
		GF/F	Not an acronym, but a specific type of glass fiber filter manufactured by Whatman.
		GMT	Greenwich Mean Time
		GOES-8	The Eighth Geostationary Operational Environmental Satellite
		GPIB	General Purpose Interface Bus
		GSE	Ground Support Equipment
		GSFC	Goddard Space Flight Center
- H -			
		H	High
		HACR	High-Accuracy Cryogenic Radiometer
		HP	Hewlett-Packard
		HPLC	High Performance Liquid Chromatography
		HTCO	High Temperature Catalytic Oxidation

- I -

- IAD Ion-Assisted Beam Deposition
- IC Integrated Circuit
- ID Inside Diameter
- IDL Interactive Data Language
- IEEE Institute of Electrical and Electronic Engineers
- IF Interference Filter
- ILX Not an acronym.
- IOP Inherent Optical Property
- IOS (SOC) Institute of Oceanographic Sciences
- ISDGM *Istituto per lo Studio della Dinamica delle Grandi Masse* (Italy)
- ISIC Integrating Sphere Irradiance Collector

- J -

- JCR (RRS) *James Clark Ross*
- JRC Joint Research Centre

- K, L -

- LANDSAT Land Satellite
- LLR Low Level Radiance
- LoCNESS Low-Cost NASA Environmental Sampling System
- LS Light Stability
- LSB Least Significant Bit
- LXR LANDSAT Transfer Radiometer

- M -

- MA Methylamine
- METEOSAT Meteorological Satellite
- MFR-6 Multi-Filter Rotating Shadow-Band Radiometer
- miniNESS miniature NASA Environmental Sampling System
- MISR Multiangle Imaging Spectroradiometer
- MMA Mirror Mount Assembly or Monomethylamine, depending on usage.
- MOBY Marine Optical Buoy
- MODIS Moderate Resolution Imaging Spectroradiometer
- MODTRAN Not an acronym, but an atmospheric photochemical and radiative transfer model.
- MSB Most Significant Bit
- MVDS Multichannel Visible Detector System

- N -

- N North
- NASA National Aeronautics and Space Administration
- NEC Not an acronym, but the present name for the Nippon Electric Company (Japan)
- NECC North Equatorial Counter Current
- NEUC North Equatorial Undercurrent
- NIR Near-Infrared
- NIST National Institute of Standards and Technology
- NOAA National Oceanic and Atmospheric Administration
- NRSR Normalized Remote Sensing Reflectance

- O -

- OCI Ocean Color Irradiance
- OCR Ocean Color Radiance
- OCTS Ocean Color Temperature Scanner
- OD Outside Diameter
- OPC Optical Plankton Counter
- OrbView-2 Not an acronym, but the current name for the SeaStar satellite.
- OSC Orbital Sciences Corporation

- P -

- P-I Photosynthesis-Irradiance
- PAR Photosynthetically Available Radiation
- PC Personal Computer
- PCR Polymerase Chain Reaction
- PID Proportional, Integral, Differential
- PM Particulate Matter
- PML Plymouth Marine Laboratory
- POC Particulate Organic Carbon
- PRIME Plankton Reactivity in the Marine Environment
- PRT Platinum Resistance Temperature (sensor)
- PST Pacific Standard Time
- PSU Practical Salinity Units
- PTFE Polyfluorotetraethylene
- PVC Polyvinylchloride

- Q, R -

- RAM Random Access Memory
- RE Ramsden Eyepiece
- RL Relay Lens
- RMSD Root Mean Square Difference
- ROSSA Radiometric Observations of the Sea Surface and Atmosphere
- RRS Royal Research Ship
- RSG (PML) Remote Sensing Group
- RSMAS Rosenstiel School for Marine and Atmospheric Science
- RSR Relative Spectral Response
- RTV Room Temperature Vulcanizing
- RVS (BAS) Research Vessel Services

- S -

- S South
- S/N Serial Number
- SACZ Sub-Antarctic Convergence Zone
- SAI Space Applications Institute
- SBE Sea-Bird Electronics
- SBRC Santa Barbara Research Center (Raytheon)
- SBRS Santa Barbara Remote Sensing
- SBUV Solar Backscatter Ultraviolet Radiometer
- SDY Sequential Day of the Year
- SeaACE SeaWiFS Atlantic Characterization Experiment
- SeaBASS SeaWiFS Bio-Optical Archive and Storage System
- SeaBOARR SeaWiFS Bio-Optical Algorithm Round-Robin
- SeaBOARR-98 The First SeaBOARR (held in 1998)
- SeaBOSS SeaWiFS Buoyant Optical Surface Sensor
- SeaFALLS SeaWiFS Free-Falling Advanced Light Level Sensors
- SeaOPS SeaWiFS Optical Profiling System
- SeaSAS SeaWiFS Surface Acquisition System

**SeaStar** Not an acronym, but the former name of the satellite on which SeaWiFS was launched, now known as OrbView-2.  
**SeaSURF** SeaWiFS Square Underwater Reference Frame  
**SeaWiFS** Sea-viewing Wide Field-of-view Sensor  
 SEC South Equatorial Current  
 SEM Scanning Electronic Microscopy  
 SEUC South Equatorial Undercurrent  
**SIMBIOS** Sensor Intercomparison and Merger for Biological and Interdisciplinary Oceanic Studies  
**SIRREX** SeaWiFS Intercalibration Round-Robin Experiment  
**SIRREX-1** The First SIRREX (July 1992)  
**SIRREX-2** The Second SIRREX (June 1993)  
**SIRREX-3** The Third SIRREX (September 1994)  
**SIRREX-4** The Fourth SIRREX (May 1995)  
**SIRREX-5** The Fifth SIRREX (July 1996)  
 SIS Spherical Integrating Source  
**SMSR** SeaWiFS Multichannel Surface Reference  
**SOC** Southampton Oceanography Centre  
**SOMARE** Sampling, Observations and Modelling of Atlantic Regional Ecosystems  
**SOOP** SeaWiFS Ocean Optics Protocols  
**SOSSTR** Ship of Opportunity Sea Surface Temperature Radiometer  
**SPMR** SeaWiFS Profiling Multichannel Radiometer  
 SQM SeaWiFS Quality Monitor  
 SQM-II The Second Generation SQM  
 SS Sea State  
 SSE Size-of-Source Effect  
 SSH Sea Surface Height  
**SSM/I** Special Sensor for Microwave/Imaging  
**SSST** Sea Surface Skin Temperature  
**SXR** SeaWiFS Transfer Radiometer

- T -

TEC Thermoelectric Cooler  
**THOR** Three-Headed Optical Recorder

TMA Trimethylamine  
 TOC Total Organic Carbon  
**TOPEX** Topography Experiment  
 TSG Thermosalinograph  
 TSM Total Suspended Matter  
 TTL Transistor-Transistor Logic

- U -

UIC Underway Instrumentation and Control  
 UK United Kingdom  
 UNC Unified Course  
**UOR** Undulating Oceanographic Recorder  
 UPS Uninterruptable Power Supply

- V -

**VAFB** Vandenberg Air Force Base  
**VisSCF** Visible Spectral Comparator Facility (NIST)  
**VXR** Visible Transfer Radiometer

- W -

W West  
**WETLabs** Western Environmental Technology Laboratories (Inc.)  
**WiSPER** Wire-Stabilized Profiling Environmental Radiometer  
 WM Spherical Mirror Wedge Section  
**WMO** World Meteorological Organization  
**WOCE** World Ocean Circulation Experiment  
 WS Wind Speed

- X -

XBT Expendable Bathythermograph  
**XOTD** Expendable Optical, Temperature, and Depth

- Y, Z -

YB71 Not an acronym, but a type of paint for solar diffusers.

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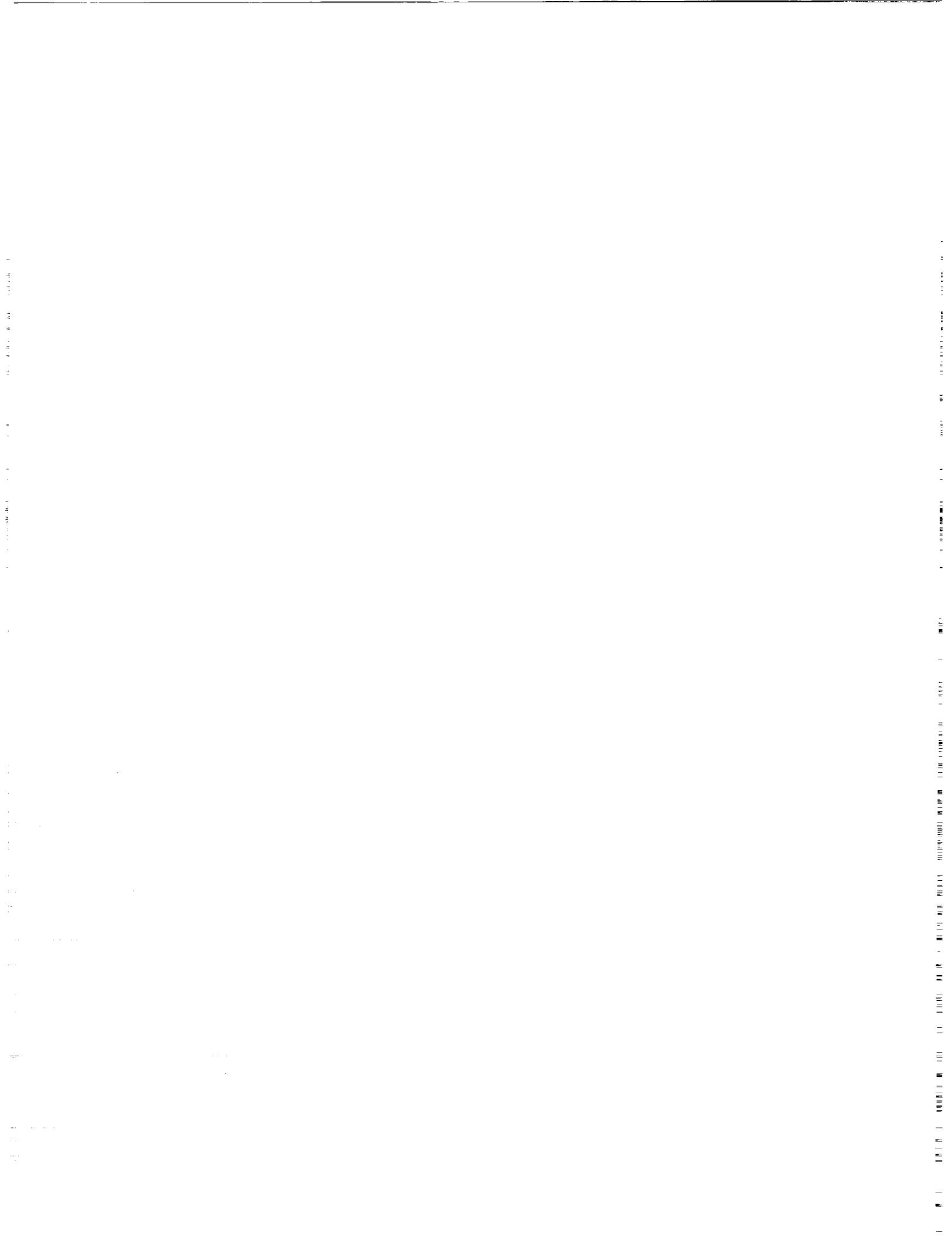
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